

**Amendments to the Claims:**

The following Listing of Claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

- 1-19. (Canceled.)
20. (Currently Amended) A delivery system for controlled dispensing of a substance, the system comprising:  
a cartridge having at least two compartments for storing material components, ~~each~~  
~~compartment~~ each of the at least two compartments having an outlet at a front end,  
wherein the system is adapted to mix the components to form a substance;  
a plunger having at least two pistons for sealing the respective compartments and  
advancing the material components in the at least two compartments;  
a lever and a geared connection rod for providing controlled dispensing of the substance;  
a mixer for mixing the material components;  
and  
a self-opening closure system which seals the front ends of the at least two compartments  
and opens when the plunger is advanced, the self-opening closure system comprising a  
plug positioned within the outlet of at least one of ~~the compartments~~ the at least two  
compartments that is pushed forward upon movement of the plunger toward the front end  
of the cartridge.
- 21-24. (Canceled).
25. (Previously Presented) The delivery system according to claim 20, comprising a  
blocking member which restricts upward movement of the lever.
26. (Previously Presented) The delivery system according to claim 20, further comprising a  
reinforcement member for hindering backlash movement of the connection rod, wherein

a pawl is adapted to lift the reinforcement member and thereby release the connection rod.

27. (Previously Presented) The delivery system according to claim 20, further comprising a reservoir for receiving the mixed substance.
28. (Previously Presented) The delivery system according to claim 27, wherein the reservoir comprises a sleeve which is movable over the exterior surface of the cartridge and a cavity for receiving the substance exiting the cartridge, the cavity being formed by the interior surface of the sleeve and the exterior surface of the cartridge.
29. (Previously Presented) The delivery system according to claim 28, wherein the lever is attached to the sleeve, and a pawl engages with the lever so that upon each push of the lever, the cartridge is caused to move forward toward the cavity thereby providing controlled dispensation of the substance.
30. (Previously Presented) The delivery system according to claim 27, wherein by pressing the lever, a pawl engages with the connecting rod and thereby activates the plunger, and the piston is moved forward into the reservoir.
31. (Previously Presented) The delivery system of claim 20, wherein the cartridge comprises an actuator part and a material receptacle having at least two compartments for storing the material components, the material receptacle being separable from the actuator part.
32. (Previously Presented) The delivery system according to claim 20, further comprising a brush.
33. (Previously Presented) The system according to claim 20, further comprising a material selected from the group consisting of: enzyme-containing compositions; dental primers; bondings; etching gels; etching liquids; varnishes; glue, pharmaceuticals, liquids or gels;

a substance for the treatment or prevention or identification of caries; a substance for the prevention or identification or removal of plaque; a substance for root canal treatment; a substance for the removal of carious or decayed or infected dentine or enamel; and a substance for the removal of denaturated dentine.

34. (Previously Presented) Kit with a system according to claim 33, further comprising a component selected from the group consisting of a dental instrument; a disposable cartridge; a glove; and a bonding or etching agent.

35-36. (Canceled).

37. (New) A delivery system for controlled dispensing of a substance, the system comprising:
- a cartridge having at least two compartments for storing material components, each of the at least two compartments having an outlet at a front end, wherein the system is adapted to mix the components to form a substance;
  - a plunger having at least two pistons for sealing the respective compartments and advancing the material components in the at least two compartments;
  - a lever and a geared connection rod for providing controlled dispensing of the substance;
  - a mixing means for mixing the material components;
  - and
  - a self-opening closure system which seals the front ends of the at least two compartments and opens when the plunger is advanced, the self-opening closure system comprising a plug positioned within the outlet of at least one of the at least two compartments that is pushed forward upon movement of the plunger toward the front end of the cartridge.